AMENDMENTS TO THE SPECIFICATION:

Please amend the specification as follows in accordance with 37 C.F.R. § 1.121:

Please amend paragraph [1] of the Brief Description of the Drawings as follows:

[1]   Figure 1 shows a <u>string of bits representing a</u> word of the vocabulary of the present invention.

Please amend paragraph [2] of the Detailed Description of the Preferred Embodiments as follows:

[2]   An example of a <u>string of bits representing a</u> word of the present invention is shown in Figure 1. The ~~word~~ <u>string</u> 10 <u>representing the word</u> is 64 bits long and is thus designed for particular use with a 64-bit processor. The word includes a number of roots 20. The roots are selected from a set that defines a taxonomy in which the roots have a one-for-one relationship with the bit-structure. The root is divided into fields 30 with each field representing a level of a tree-type taxonomy.

Please amend paragraph [9] of the Detailed Description of the Preferred Embodiments as follows:

[9]   In Figure 3, a number of illustrative words are shown. As an example, an "electronics teacher" may be represented by ~~an alternate~~ <u>a base</u> root of teaching, ~~a base~~ <u>an alternate</u> root of worker, a destination or purpose root of electronics, a mode root of communication and a source root of knowledge as shown in Figure 3. The representations for a number of other words are shown in Figure 3. It should be noted that merely by looking at the most significant field of the alternate root it can be determined that all the words but "instructional experience" are related, as being in the life class. It ~~is~~ can also be determined that by looking at the entire alternate root that the first six words are more closely related, as being in the worker category. Each field can provide meaning to the word. If the field requires no meaning, the value of most general concept

"existence" is used in the field. A computer can process and store each word based on the meaning provided by any field or any combination of fields.

Please amend paragraph [12] of the Detailed Description of the Preferred Embodiments as follows:

[12] Each word is comprised of roots that provide meaning to the words. The words may also include other indicators that supplement or alter the meaning of the roots. In the example of Figure 1, the word includes 64 bits. The word in the example also includes six negation bits 40. These indicators are used to designate whether each root should be negated or interpreted with an opposite meaning. Other bits in the word are used by convention where required. In ~~the~~ ~~illustrated~~ this example, "cat" has five roots. The alternate value indicates that it is an animal and that the base root is conventionalized and the secondary roots have alternate meaning. The base value indicates a mammal. The secondary roots indicate that it is a land dwelling, carnivorous pet. In the case the five roots do not distinguish between a cat and a dog. By convention three further bits are used to indicate the type of carnivorous pet. Values of zero for general (unknown or other), one for cat, two for dog, etc. are assigned. The remaining eight bits may be used to further define the word where necessary. In this example, other bits could be used to indicate the weight or the breed of the cat.